

CLAIMS

7. The device as claimed in Claim 1, wherein said means for diverting the radiation is a prism.
- 5 8. The device as claimed in Claim 7, wherein a first prism diverts the radiation towards the profile and wherein said second prism diverts the radiation that passes through the profile.
- 10 9. The device as claimed in Claim 8, wherein said detector and said source are positioned side by side and said first prism and said second prism are positioned in a predetermined distance and opposite to one another so as to form a bypass of said radiation.
- 15 10. The device as claimed in Claim 1, further comprising a magnification system adapted to receive said radiation that passes through the profile and transfers it so as to hit said detector.
- 20 11. The device as claimed in Claim 1, wherein said detector is a CCD camera.
- 25 12. The device as claimed in Claim 1, wherein the characteristics of toolings are a distance between the toolings.
13. The device as claimed in Claim 1, wherein the characteristics of toolings are the clearance between the toolings.
- 30 14. A method for measuring characteristics of toolings comprising:
 - providing a radiation source adapted to generate radiation;
 - providing a first means for diverting said radiation so as to pass through a profile in the toolings;
 - providing a second means for diverting said radiation that passes through the profile;
 - directing the diverted radiation to a detector;

whereby the characteristics of the profile is processed from the detected radiation that passes through the profile.

- 5 15. The method as claimed in Claim 14, wherein said radiation is selected from a group consisting of electromagnetic radiation, light radiation or laser light.
- 10 16. The method as claimed in Claim 14, wherein the toolings are chuck and roll in a seamer and the characteristics are the profiles of a gap between the chuck and the roll.
- 15 17. The method as claimed in Claim 14, wherein said first means for diverting and said second means for diverting said radiation are selected from a group comprising diverters such as prism, mirror, lens, or fiber-optic.